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# United States Patent [19] Falconer

(11) Patent Number: Des. 412,195  
(45) Date of Patent: Jul. 20, 1999

[54] HAND BOARD  
[76] Inventor: Glen Falconer, 325 S. Washington  
#148, Kent, Wash. 98032  
[\*\*] Term: 14 Years  
[21] Appl. No.: 29/081,544  
[22] Filed: Jan. 5, 1998  
[51] LOC (6) Cl. 21-06  
[52] U.S. Cl. D21/807; D21/806  
[58] Field of Search 441/56-57, 58, 61-64

3,742,539 1/1973 Okuniewski et al. 441/58  
4,233,925 11/1980 Proctor 440/101  
4,493,663 1/1985 Richmond 440/101  
4,509,744 4/1985 Beasley 272/116  
4,669,991 6/1987 Southworth 441/57  
4,913,418 4/1990 Schuster et al. 272/71  
5,147,233 9/1992 Hansen 441/56

Primary Examiner—Kay H. Chin

[57] CLAIM

I claim the ornamental design for a hand board, as shown and described.

## DESCRIPTION

FIG. 1 is a side elevational view of my hand board showing an unassembled condition.

FIG. 2 is a top plan view of FIG. 1.

FIG. 3 is a top plan view of the safety jesse' with slider ball and a knot on the end.

FIG. 4 is a top plan view of the wrist cord with a knot on each end.

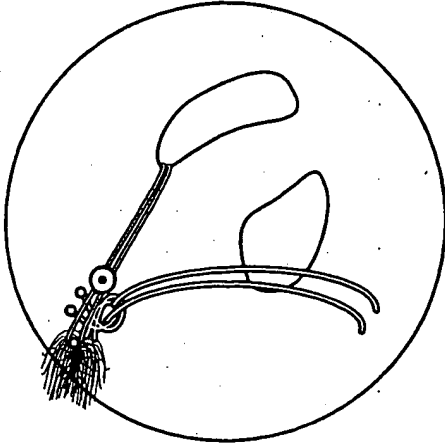
FIG. 5 is a top plan view of my hand board in an assembled condition with wrist cords and safety jesses'.

FIG. 6 is a side elevational view of FIG. 5; and,

FIG. 7 is a bottom plan view of FIG. 5.

1 Claim, 2 Drawing Sheets

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Cool  
SkyBoard

# United States Patent [19] Falconer

(11) Patent Number: Des. 412,352  
(45) Date of Patent: Jul. 27, 1999

[54] HAND BOARD  
[76] Inventor: Glen Falconer, 325 S. Washington  
#148, Kent, Wash. 98032  
[\*\*] Term: 14 Years  
[21] Appl. No.: 29/081,543  
[22] Filed: Jan. 5, 1998  
[51] LOC (6) Cl. 21-06  
[52] U.S. Cl. D21/807; D21/806  
[58] Field of Search 441/56, 57, 58, 61-64

3,742,539 1/1973 Okuniewski et al. 441/58  
4,233,925 11/1980 Proctor 440/101  
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4,669,991 6/1987 Southworth 441/57  
4,913,418 4/1990 Schuster et al. 272/71  
5,147,233 9/1992 Hansen 441/56

Primary Examiner—Kay H. Chin

[57] CLAIM

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## DESCRIPTION

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FIG. 4 is a top plan view of the wrist cord with a knot on each end.

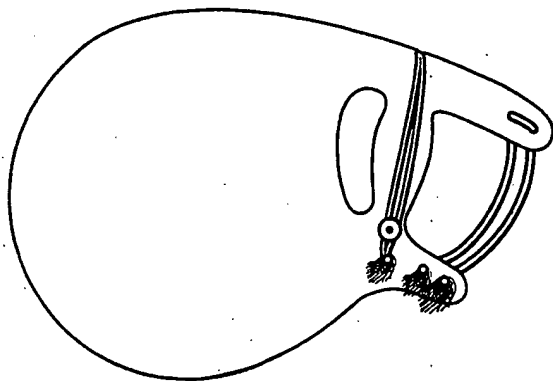
FIG. 5 is a top plan view of my hand board in an assembled condition with wrist cords and safety jesses'.

FIG. 6 is a side elevational view of FIG. 5; and,

FIG. 7 is a bottom plan view of FIG. 5.

1 Claim, 2 Drawing Sheets

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U.S. PATENT DOCUMENTS  
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D. 318,894 8/1991 Harding D21/237  
D. 321,547 11/1991 Albrecht D21/239  
D. 329,433 9/1992 Rogers, Jr. D21/237  
3,529,313 9/1970 Gides 441/56



Coastin' in the Shade

# United States Patent [19] Falconer

(11) Patent Number: Des. 412,353  
(45) Date of Patent: Jul. 27, 1999

[54] HAND BOARD  
[76] Inventor: Glen Falconer, 325 S. Washington  
#148, Kent, Wash. 98032  
[\*\*] Term: 14 Years  
[21] Appl. No.: 29/081,545  
[22] Filed: Jan. 5, 1998  
[51] LOC (6) Cl. 21-06  
[52] U.S. Cl. D21/807; D21/806  
[58] Field of Search 441/56, 57, 58, 61-64

3,742,539 1/1973 Okuniewski et al. 441/58  
4,233,925 11/1980 Proctor 440/101  
4,493,663 1/1985 Richmond 440/101  
4,509,744 4/1985 Beasley 272/116  
4,669,991 6/1987 Southworth 441/57  
4,913,418 4/1990 Schuster et al. 272/71  
5,147,233 9/1992 Hansen 441/56

Primary Examiner—Kay H. Chin

[57] CLAIM

I claim the ornamental design for a hand board, as shown and described.

## DESCRIPTION

FIG. 1 is a side elevational view of my hand board showing an unassembled condition.

FIG. 2 is a top plan view of FIG. 1.

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FIG. 4 is a top plan view of the wrist cord with a knot on each end.

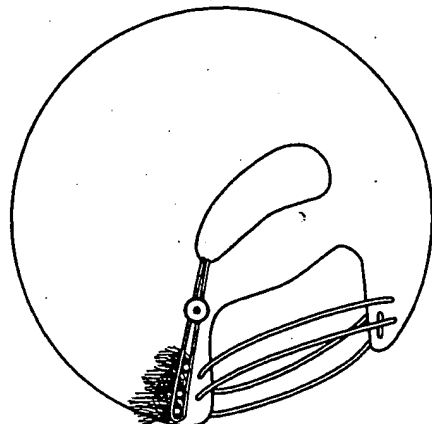
FIG. 5 is a top plan view of my hand board in an assembled condition with wrist cords and safety jesses'.

FIG. 6 is a side elevational view of FIG. 5; and,

FIG. 7 is a bottom plan view of FIG. 5.

1 Claim, 2 Drawing Sheets

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D. 261,023 9/1981 Pasenl D21/239  
D. 262,477 12/1981 Lewis D21/239  
D. 262,817 1/1982 Griffith D21/238  
D. 263,860 4/1982 Cole D21/228  
D. 286,904 11/1986 Kim D21/228  
D. 300,341 3/1989 Brown D21/239  
D. 318,894 8/1991 Harding D21/237  
D. 321,547 11/1991 Albrecht D21/239  
D. 329,433 9/1992 Rogers, Jr. D21/237  
3,529,313 9/1970 Gides 441/56



Sweet

# United States Patent

Harrison

(11) Patent Number: 4,546,510  
(45) Date of Patent: Oct. 15, 1985

## [54] HANDTOOL

[76] Inventor: Daa W. Harrison, Rte. 1, Box 370, Brownsboro, Tex. 73756

[21] Appl. No.: 446,780

[22] Filed: Dec. 3, 1982

[51] Int. Cl.: B25G 1/00; B25G 1/08

[52] U.S. Cl.: 7/145; 30/151

[58] Field of Search: 7/145, 144, 143; 30/151, 153

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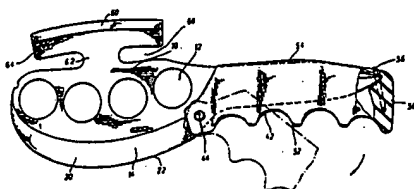
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3,121,713 5/1967 Ives  
3,581,326 3/1969 Mayo

Primary Examiner—Rocco V. Parker  
Attorney, Agent, or Firm—Arnold, White & Durlak

## ABSTRACT

There is provided an improved hand tool having a body portion with an axe blade attached thereto. A knife blade extends from the body portion so as to be pivotally mounted on the body portion so as to be movable between first and second positions. The sheath is configured to cover the knife blade when the sheath is in the first position and to cover the axe blade when the sheath is in the second position.

20 Claims, 3 Drawing Figures



# United States Patent

Morreira

(11) Patent Number: 5,829,082  
(45) Date of Patent: Nov. 3, 1998

## [54] MULTI-FUNCTIONAL HAND TOOL

[76] Inventor: Antonio Moreira, 17 Gail Rd., Merrick, N.Y. 03054

[21] Appl. No.: 819,429

[22] Filed: Mar. 17, 1997

[51] Int. Cl.: B25G 1/00

[52] U.S. Cl.: 7/167; 81/489; 81/124.4

[58] Field of Search: 7/167, 158, 170; 81/489, 487, 329, 337, 339, 342, 124.4; 30/244

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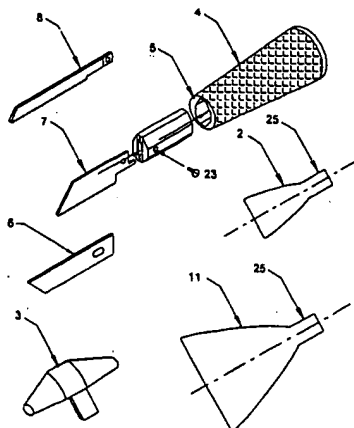
72039 11/1893 Germany 81/124.4

Primary Examiner—David Scherbel  
Assistant Examiner—Joel B. Daugosa  
Attorney, Agent, or Firm—Scott B. Garrison; Lambert & Garrison PLLC

## ABSTRACT

A multi-functional hand tool is provided having a handle portion to be held by a user. The handle portion is made to receive a plurality of different types of tool attachments. To secure these tool attachments, a plurality of slots are machined into an attachment portion of the hand tool. The attachment portion is simply a rigid element which can receive, retain and rigidly secure one of the tool attachments within one of the slots. The slots are sized differently to accommodate various marketed tool attachments, such as jig saw blades, reciprocating saw blades, utility knives, et. al. Further, putty knives, and striking implements can be made bearing a suitable tang for engaging one of the slots. The device is meant to be used as an all purpose sawing, cutting, scraping, spreading and striking implement which would replace a great deal of expensive tools commonly needed by apartment dwellers, students, and "do-it-yourselfers".

5 Claims, 5 Drawing Sheets



# United States Patent

Magan

(11) Patent Number: Des. 286,501  
(45) Date of Patent: Nov. 4, 1986

## [54] HANDTOOL

[76] Inventor: Arthur S. C. Magan, 15, Heynesbury Lane, Dublin 4, Ireland

[21] Term: 14 Years

[21] Appl. No.: 461,666

[22] Filed: Jan. 27, 1983

[52] U.S. Cl.: D4/105; D4/32

[58] Field of Search: D4/31, 52, 54-60, D4/23, 24, 14, 104, 106, 105, 99; 7/118, 119, 129, 132, 142, 163, 164, 166, 167

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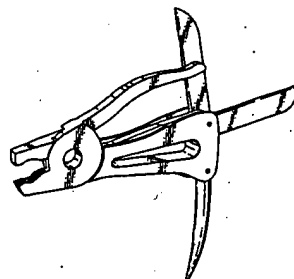
Primary Examiner—Susan J. Lucas  
Assistant Examiner—C. E. Heflin  
Attorney, Agent, or Firm—Young & Thompson

## CLAIM

The ornamental design for a handtool, substantially as shown and described.

## DESCRIPTION

FIG. 1 is a perspective view of the handtool showing my new design with the various components shown in the open position;  
FIG. 2 is a side view from the right hand side of the handtool showing my new design with the various components shown in the closed position;  
FIG. 3 is a side view from the left hand side thereof;  
FIG. 4 is a top view thereof;  
FIG. 5 is a bottom view thereof;  
FIG. 6 is a front view thereof; and  
FIG. 7 is a rear view of the handtool of my new design.



# United States Patent

Anderson et al.

(11) Patent Number: 6,131,222  
(45) Date of Patent: Oct. 17, 2000

## [54] TROWEL AND SCREWDRIVER COMBINATION HANDTOOL

[76] Inventor: Wayne Anderson, 65 Grove St., Paolo Cassat, 8 N. Creek Rd., both of Northport, N.Y. 11768

[21] Appl. No.: 09/434,894

[22] Filed: Nov. 9, 1999

## Related U.S. Application Data

[63] Continuation of application No. 09/134,684, Aug. 14, 1998, and a continuation-in-part of application No. 09/237,784, Jan. 28, 1999, which is a continuation of application No. 08/977,027, Nov. 24, 1997, Pat. No. 5,977,164, which is a continuation of application No. 08/451,398, May 28, 1995, Pat. No. 5,711,194.

[51] Int. Cl.: B44C 7/00  
[52] U.S. Cl.: 7/105; 7/118; 7/128  
[58] Field of Search: 7/105, 118, 128, 7/165, 167

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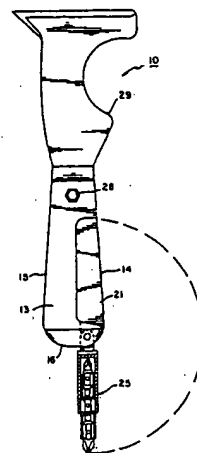
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Primary Examiner—David A. Scherbel  
Assistant Examiner—Lee Wilson  
Attorney, Agent, or Firm—Lackensbach Siegel Marzullo Anson & Greenpan, P.C.

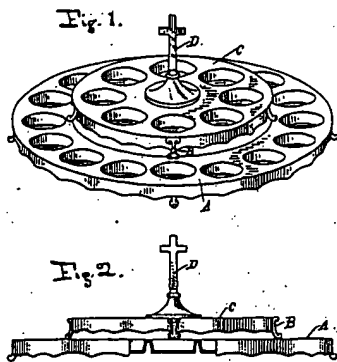
## ABSTRACT

A combination trowel and screwdriver is provided wherein the trowel handle houses and removably retains a tool bit drive assembly which houses a plurality of tool bit or screw drives. The user pivots the tool bit drive assembly housing away from the handle in a position extending in the proximate direction from the handle. The user then selects the desired tool bit drive for insertion at the proximate end of the assembly and with the proximate end of the handle screws the screw into a recessed position in a wallboard construction. The user then retracts or pivots the tool bit drive assembly into the handle, and then with the trowel end pushes or spreads a wallboard plastic or finishing material over the recessed screw head to finish the wall.

15 Claims, 3 Drawing Sheets



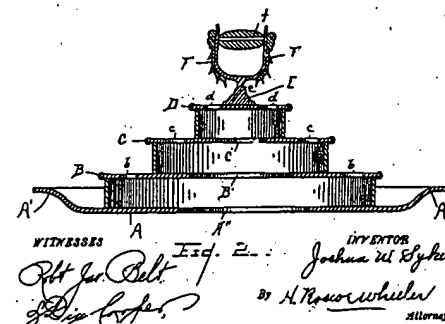
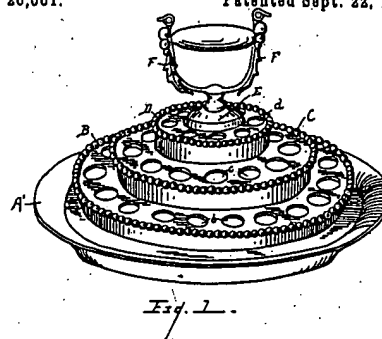
DESIGN.  
E. J. HOWE.  
COMMUNION SERVICE TRAY.  
No. 23,901. Patented Dec. 26, 1894.



Witnesses:  
Edw. J. Howe  
S. A. Pennington

Inventor  
Edwin J. Howe,  
By L. S. Bacon  
Att'y.

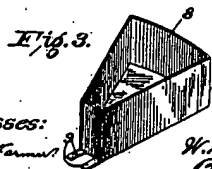
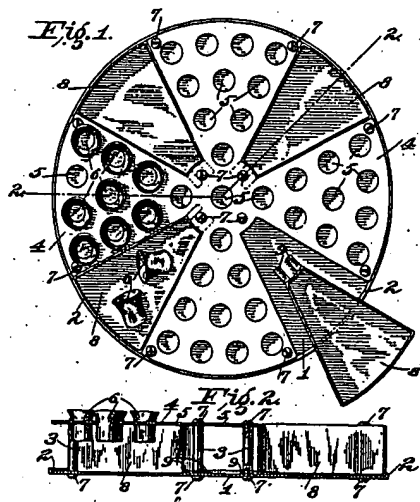
DESIGN.  
J. W. SYKES.  
COMMUNION SERVICE TRAY.  
No. 28,061. Patented Sept. 22, 1896.



Witnesses  
Edw. J. Howe  
S. A. Pennington

Inventor  
Joshua W. Sykes  
By H. H. Wheeler  
Att'y.

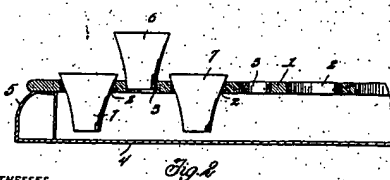
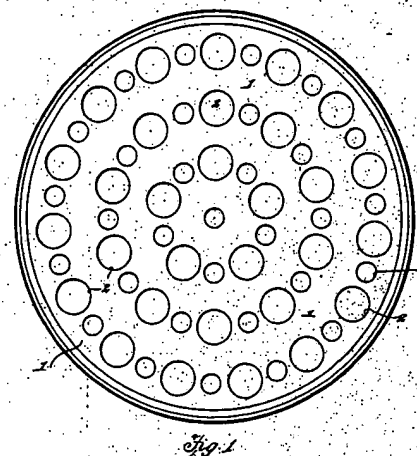
W. D. OREE & H. F. DAVIS.  
COMMUNION SERVICE TRAY.  
APPLICATION FILED OCT. 1, 1910.  
982,351. Patented Jan. 24, 1911.



Witnesses:  
Edw. J. Howe  
S. A. Pennington

Inventors  
W. D. Oree & H. F. Davis  
By C. A. Pennington  
Att'y.

A. E. HUSTED.  
COMMUNION TRAY.  
APPLICATION FILED APR. 2, 1912.  
1,199,987. Patented Oct. 3, 1916.



Witnesses  
Edw. J. Howe  
S. A. Pennington

Inventor  
A. E. Husted  
By C. A. Pennington  
Att'y.

## [34] TABLE TENNIS PADDLE

[75] Inventor: John J. Bowen, 419 E. Chapman St., Ely, Minn. 55731

[\*\*] Term: 14 Years

[21] Appl. No.: 838,119

[22] Filed: Sep. 29, 1977

[31] Int. Cl. D21-01

[32] U.S. Cl. D21/213

[34] Field of Search: D24/1 SP, 15 P, 273/76, 273/97 R, 67 R

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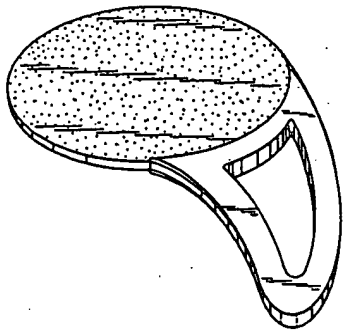
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23771 of 1981 United Kingdom 273/76Primary Examiner—Melvin B. Folie  
Attorney, Agent, or Firm—Norman P. Friederichs

## [37] CLAIM

The ornamental design for a table tennis paddle, as shown and described.

## DESCRIPTION

FIG. 1 is a perspective view of a table tennis paddle showing my new design.  
FIG. 2 is a side view, and  
FIG. 3 is a top view the bottom view being a mirror image of the top.

## [34] TABLE TENNIS BAT BLADE

[75] Inventor: Jackson Tse, Bellevue, Wash.

[73] Assignee: EST Industries, Inc., Wash.

[21] Appl. No.: 64,355

[22] Filed: Aug. 4, 1979

[31] Int. Cl. A63B 59/04

[32] U.S. Cl. 273/76; 273/DIG. 7; 273/DIG. 23

[33] Field of Search: 273/73 F, 76, DIG. 7, 273/23, 67 R, 67 A, 67 D

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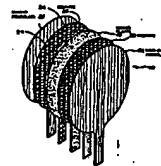
"Research Disclosure"; Disclosure No. 11644, Dec. 1973.

Primary Examiner—Richard J. Aspley  
Attorney, Agent, or Firm—Oraybical & Uhler

## [37] ABSTRACT

The blade for a table tennis bat includes a layer of lightweight, low modulus of elasticity material positioned centrally with respect to the thickness of the blade and overlaid by a constraining layer of high modulus of elasticity material. The blade also includes a smooth, rigid outer layer bonded to the outer surfaces of the two constraining layers. The constraining layers are composed of strands of stretch resistant material woven transversely to each other to form a flat mat.

6 Claims, 2 Drawing Figures



## [34] PADDLE BALL RACQUET

[75] Inventor: Stephen F. McPoyle, Lake Worth, Fla.

[73] Assignee: Forty Four Inc., West Palm Beach, Fla.

[21] Appl. No.: 630,370

[22] Filed: Jan. 31, 1992

[31] Int. Cl. A63B 59/04

[32] U.S. Cl. 273/76; 273/73 J; 273/30

[34] Field of Search: 273/73 R, 73 G, 73 J, 273/76, 29 R, 29 A, 30

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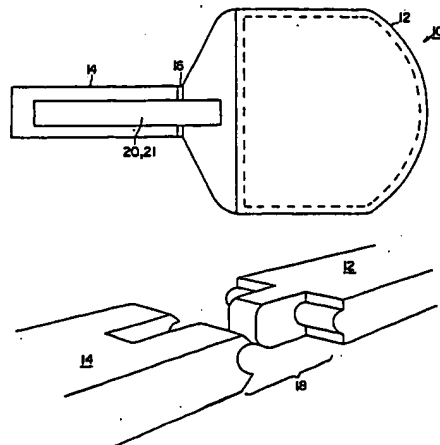
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Primary Examiner—William H. Orlich  
Assistant Examiner—William E. Snell  
Attorney, Agent, or Firm—John H. Furo

## [37] ABSTRACT

A paddle ball racquet for a slow paced table tennis game is herein disclosed. The racquet is modified to eliminate the advantages of the power player by imparting flex or articulation between the racquet handle and the paddle surface. The design parameters of the racquet prevents accurate return of the game ball if the racquet speed exceeds certain empirically determined limits. Accordingly, the racquet handicaps the power player and thereby emphasizes accuracy in shot placement. The racquet of this invention can be used in conventional table tennis or, in conjunction with a unique table tennis layout designed for accurate shot placement.

4 Claims, 4 Drawing Sheets



## [34] TABLE TENNIS HANDLE-LESS RACQUET AND MULTIPURPOSE COMBINATION TABLE

[75] Inventors: Marlon Tom Mizeracki, 39 Boulder Hill Ln., Russellville, AR (US) 72802; Martin Robert Mizeracki, 3301 Meadow Wood Ln., Bedford, TX (US) 76021

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

[21] Appl. No.: 09/401,253

[22] Filed: Sep. 23, 1999

[31] Int. Cl. A63B 67/04

[32] U.S. Cl. 473/494; 473/435; 473/470; 108/170

[34] Field of Search: 273/309; 473/496, 473/491, FOR 113, 4, 10, 14, 15; 106/93-95, 62-63, 94; 254/700

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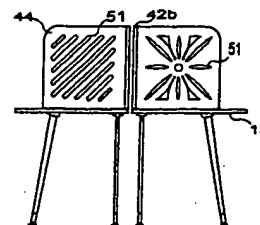
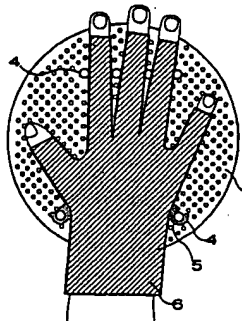
\* cited by examiner

Primary Examiner—Jeanette Chappas  
Assistant Examiner—Mitra Arayappan

## [37] ABSTRACT

A table tennis handle-less paddle or racquet, and a multipurpose sport & entertainment game-study convertible table are disclosed. A racquet is characterized by combination of two separate impact surfaces, between which a player's hand is inserted. The accessories and games are specifically designed as an integrated package, to develop motor skills for the youngest players, and to facilitate learning table tennis, starting from age five to six. A concept of novel hardware is also applicable to older children and adults as well. A multipurpose convertible table is constructed to serve as a game apparatus (table tennis or surface propelled puck game), or as a student study-work fixture.

4 Claims, 5 Drawing Sheets



## [54] APPARENT WIND INDICATION DEVICE

[76] Inventor: Michael L. Perretta, 4896 Fayetteville Mall Rd., Manlius, N.Y. 13104

[21] Appl. No.: 774,523

[22] Filed: Mar. 4, 1977

[31] Int. Cl.: G01W 1/00

[32] U.S. Cl.: 73/188; 116/114 R; 116/144 C

[38] Field of Search: 114/114 C; 73/188; 116/173, 114 R

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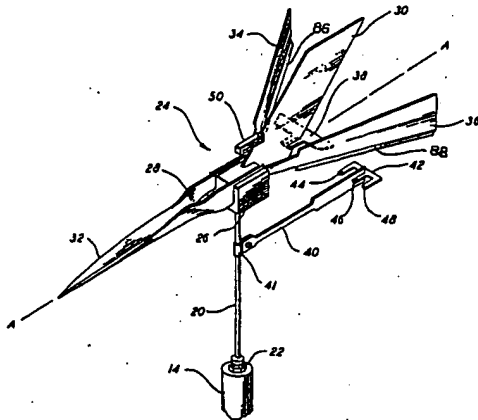
3,371,529 1/1964 Tillman 73/188  
3,445,734 11/1974 Deane 73/188

Primary Examiner—George E. A. Halverson  
Assistant Examiner—James D. Sotelo  
Attorney, Agent, or Firm—Charles S. Mc Guire

## [57] ABSTRACT

A device for mounting on a sailboat to provide a visual indication of the optimum boat-to-wind angle to achieve maximum distance per unit of time to windward. A pivotally mounted wind vane includes a pair of flexible struts extending outwardly at equal angles on each side of the vane centerline and are deflected from a normal, inflated position inwardly in proportion to apparent wind velocity. A flexible elongated member is affixed at one end to the support upon which the vane is pivotally mounted and is likewise flexed in accordance with apparent wind direction and velocity. Steering the boat to bring the flexible member into predetermined positional relationship to one of the flexible struts provides the desired optimization for upwind travel, of boat-to-wind angle. The device is also useful in downwind sailing by depending one of the struts on the wind-vane with either the transverse or longitudinal axis of the boat, depending on apparent wind velocity.

10 Claims, 6 Drawing Figures



## [54] WINDVANE

[76] Inventor: Samuel Birabbaum, 11 Shadow Grove Ln., Holbrook, N.Y. 11741

[21] Appl. No.: 224,460

[22] Filed: Jan. 12, 1981

[31] Int. Cl.: G01F 13/02

[32] U.S. Cl.: 73/188; 116/72 R; 116/763

[58] Field of Search: 73/188, 189; 116/72 R; 116/26, 200, DIG. 1, 263; 350/96.19, 96.10

## [56] References Cited

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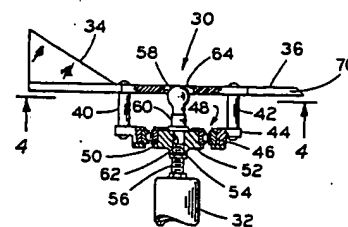
2015161 9/1979 United Kingdom 116/263

Primary Examiner—Charles Frankfort  
Assistant Examiner—Dennis E. Carr  
Attorney, Agent, or Firm—Bancroft & Amer

## [57] ABSTRACT

A plexiglass or similar plastic windvane that has beveled peripheral edges or is otherwise provided with surface markings from which light rays impinging thereon exit from the plexiglass causing illumination of the edges or markings, whereby the windvane is effectively used at night or under conditions of diminished visibility to designate wind direction.

2 Claims, 5 Drawing Figures



## [54] BIRD REPELLING MEANS

[76] Inventor: David A. Nuttall, Rte. 2, Youngsville, N.C. 27596

[21] Appl. No.: 797,989

[22] Filed: Oct. 28, 1983

[31] Int. Cl.: A01M 29/04

[32] U.S. Cl.: 43/2; 446/178

[38] Field of Search: 43/2, 1; 116/22 A, 23, 116/24, 140, 141; 446/178, 178; 213, 216, 40/440, 455

## [56] References Cited

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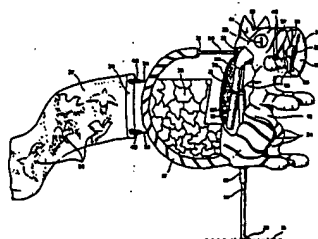
233,024 1/1975 Fed. Rep. of Germany 43/2  
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220,164 6/1980 United Kingdom 43/1

Primary Examiner—Nicholas P. Goddard  
Assistant Examiner—Carmela Coda  
Attorney, Agent, or Firm—Mills & Coats

## [57] ABSTRACT

This invention is a combination of visual and aural devices to create panic in selected bird species. This is accomplished in part through a body simulating a Tiger Cat which is weather-vane mounted. The body includes bright orange stripes and has predatory eyes. Streamers depicting perched birds are attached to the tiger's tail and an internal wind driven flute produces a variety of the scree. Additionally, reflectors are used on a propeller to simulate light reflection from a gun barrel. Further, random or scheduled explosions from an automatic acetylene exploder and bird warning and distress calls are broadcast over loud speakers for the species of birds being repelled.

24 Claims, 6 Drawing Figures



## [54] WEATHERVANE SUPPORT

[76] Inventor: Walter James Frontz, II, 2552 Lachry Old State Rd., Delaware, Ohio 43015

[21] Term: 14 Years

[21] Appl. No.: 63,311

[22] Filed: Nov. 13, 1994

[31] LOC (4) Cl.: 38-44

[32] U.S. Cl.: D18/59

[38] Field of Search: D1059; 73/170.05, 170.07

## [56] References Cited

## U.S. PATENT DOCUMENTS

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Primary Examiner—Aristide Duval Davis  
Attorney, Agent, or Firm—Stanley & Gluck

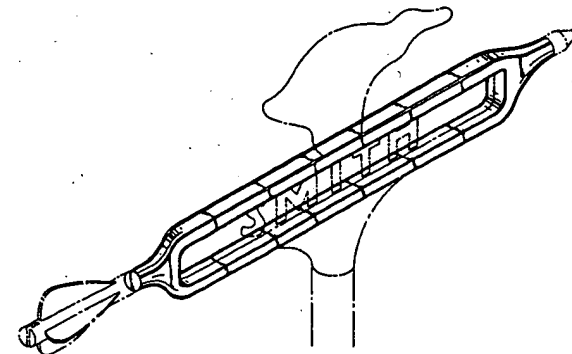
## [57] CLAIM

The ornamental design for a weathervane support, as shown and described.

## DESCRIPTION

FIG. 1 is a perspective view of the weathervane support of the present invention;  
FIG. 2 is a side view of the weathervane support of FIG. 1;  
FIG. 3 is a top plan view of the weathervane support of FIG. 1;  
FIG. 4 is a bottom view of the weathervane support of FIG. 1;  
FIG. 5 is a front end view of the weathervane support of FIG. 1;  
FIG. 6 is a back end view of the weathervane support of FIG. 1.  
The broken line showing is for illustrative purposes only and forms no part of the claimed design.

1 Claim, 3 Drawing Sheets



# United States Patent

Check et al.

(11) 4,378,670  
(45) Apr. 5, 1983

## [54] HAND SCOOP FOR GRASS AND LEAVES

[76] Inventors: Mathias M. Check, 34 Bowman Dr., Greenwich, Conn. 06830; Ellis L. Goodby, 22 Barrow Dr., East Greenwich, R.I. 02818

2,183,544 11/1979 Macos 36/400.01  
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3,960,130 11/1980 Precker 294/33  
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3,029,421 3/1974 James 36/400.12

[21] Appl. No.: 183,215

[22] Filed: Aug. 28, 1980

[31] Int. Cl. A01D 7/00

[32] U.S. Cl. 56/400.01; 56/400.12; 294/30.3; 294/33

[58] Field of Search 294/49, 51, 50.5, 50.6, 294/50.8, 50.9, 52; 56/400.01; 400.12

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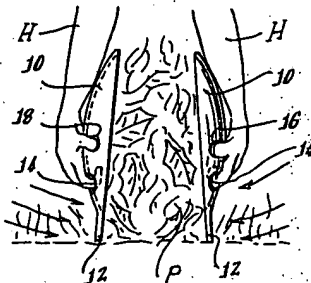
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2,023,480 1/1934 Mayeda et al. 294/30.3

Primary Examiner—Paul J. Hirsch  
Attorney, Agent, or Firm—Alfred E. Miller

## [57] ABSTRACT

A pair of concave scoops that are operated by a person's hands which have teeth that function as rakes to assemble leaves, grass clippings, and other debris into a pile that can be lifted for disposal into garbage bags, wheelbarrows, or the like. The scoops are lightweight, and easily grasped and maneuvered into position to lift up and dispose of any unwanted debris from lawns and other locations.

9 Claims, 7 Drawing Figures



# United States Patent

Costar

(11) Patent Number: 5,359,840  
(45) Date of Patent: Nov. 1, 1994

## [54] COMBINATION HANDRAKE, SCOOP, GRASPING TOOL AND METHOD OF USE

[76] Inventor: Donald G. Costar, P.O. Box 5905, Reno, Nev. 89507-0905

[21] Appl. No.: 177,868

[22] Filed: Jan. 4, 1994

[31] Int. Cl. A01D 7/02

[32] U.S. Cl. 56/400.12; 172/378; 294/23

[58] Field of Search 36/330, 400.01, 400.12, 36/400.16; 172/371, 378; 294/23

## [56] REFERENCES CITED

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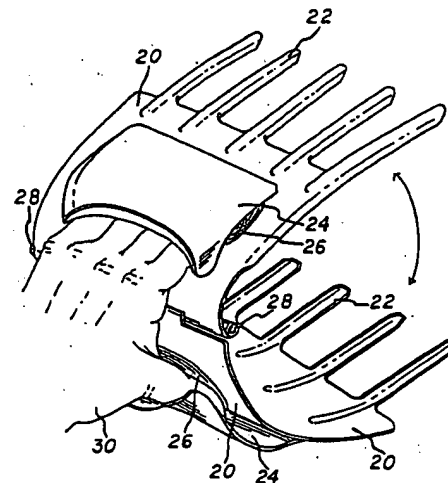
7572 1/1999 Norway 294/23

Primary Examiner—David J. Bagnell

## [57] ABSTRACT

A one hand operable grasping tool having extended and crossing tines, or raking members, that transform the tool into a small one hand operable rake when in a closed position.

2 Claims, 4 Drawing Sheets



# United States Patent

McKittrick

(11) Patent Number: 5,937,627  
(45) Date of Patent: Aug. 17, 1999

## [54] GARDENING IMPLEMENT HAVING ENHANCED LEVERAGE

[75] Inventor: Janie McKittrick, 4901 Froese Ave., Golden Valley, Minn. 55422

[73] Assignee: Janie McKittrick, Golden Valley, Minn.

[21] Appl. No.: 08/693,345

[22] Filed: Aug. 6, 1996

## Related U.S. Application Data

[63] Continuation-in-part of application No. 08/614,158, Mar. 8, 1996, Pat. No. 5,813,206.

[31] Int. Cl. A01D 7/00

[32] U.S. Cl. 56/400.01; 56/400.04; 172/378; 294/58

[58] Field of Search 56/400.01, 400.04, 56/400.05, 400.17; 172/378; 294/58

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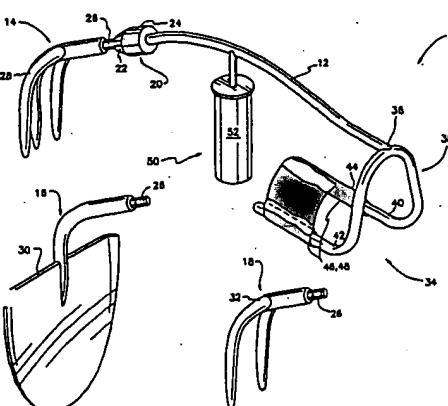
2248034 3/1992 United Kingdom 294/58

Primary Examiner—Heather Stackelford  
Attorney, Agent, or Firm—Donsey & Whitney LLP

## [57] ABSTRACT

A hand held garden tool configured to enhance downward force for digging and raking. The tool has a rod frame which extends from a working element attached to the tool at the free end of the tool to a brace located at the rear of the tool. The brace rests on the user's wrist or forearm, so that additional force is developed when the working element is urged downwardly into the ground. A handle depends from the frame at a point between the working element and the brace. Vertical orientation of the handle is more natural and comfortable than would be a horizontal orientation. The handle is provided with a molded grip for cooperating with a user's hand. The tool has a chuck for accepting diverse working heads, and preferably is provided with a plurality of diverse working heads. Exemplary working heads include rakes, spades, and pry.

5 Claims, 3 Drawing Sheets



# United States Patent

Anthes et al.

(11) Patent Number: 5,609,012  
(45) Date of Patent: Mar. 11, 1997

## [54] RAKING APPARATUS WORN ON A HAND

[76] Inventors: Peter S. Anthes, Jeanne Anthes, both of 8 Gen Cl., Westerly, R.I. 02891

4,866,922 9/1989 Clark 56/400.04  
5,404,644 4/1995 Nordman et al. 172/378 X

Primary Examiner—Terry Lee Melina

[21] Appl. No.: 829,081

[22] Filed: Sep. 15, 1995

[31] Int. Cl. A01D 7/04

[32] U.S. Cl. 56/400.01; 56/400.12; 172/378

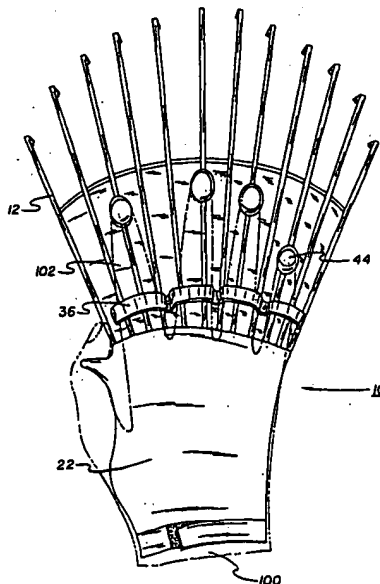
[58] Field of Search 56/400.01, 400.04, 56/400.19, 400.12, 400.21; 172/378; 294/23

## [56] REFERENCES CITED

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4,378,670 4/1983 Check et al. 56/400.01

5 Claims, 3 Drawing Sheets



## [54] HANDSAW WITH SPECIALIZED CUTTING TEETH

[76] Inventor: Heinrich E. Tanscher, Bergstrasse 7, 8441 Furtth-Oberndorf, Fed. Rep. of Germany

[21] Appl. No.: 915,589

[22] Filed: Jan. 15, 1978

[51] Int. Cl. B27B 21/00  
[52] U.S. Cl. 145/31 R; 76/112  
[53] Field of Search 145/31 R; 76/112

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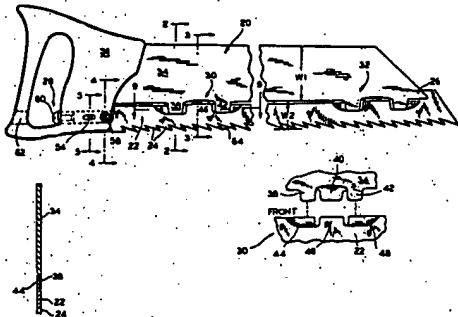
326757 6/1956 Canada 145/31 R

Primary Examiner—Robert L. Sprull  
 Assistant Examiner—J. T. Zatzara  
 Attorney, Agent, or Firm—Charles A. Left, J. Warren Whitaker, Howard B. Rockman

## [57] ABSTRACT

A hand saw has a main blade and an auxiliary cutting blade with specialized fingers. The cutting blade is held tautly between two points disposed on opposite ends of the main blade. Interlocking teeth prevent the two blades from springing apart without interfering with the tautness of the cutting blade. The vertical projection of the cross section of the two blades is the same as the vertical projection of one blade alone, so that the two combined saw blades easily follow their own kind.

11 Claims, 9 Drawing Figures



## [54] HANDSAW FRAME

[76] Inventor: Norman F. Nelson, 3104 Maple Rd., Lynwood, Wash. 98037

[\*\*] Term: 14 Years

[21] Appl. No.: 80,342

[22] Filed: May 12, 1987

[51] U.S. Cl. D8/97; D8/96  
[52] Field of Search D8/14, 95-102, D8/103, 107, 30/166 R, 307-313, 514, 518, 514, 7/148, 149, 151

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Primary Examiner—Bruce W. Dunkins  
 Assistant Examiner—Clare E. Heflin

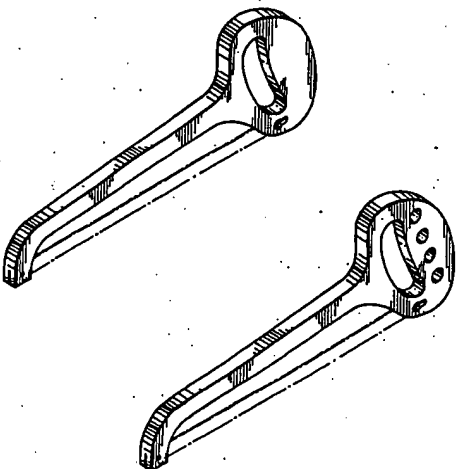
Attorney, Agent, or Firm—Ward Brown, Robert W. Beach

## [57] CLAIM

The ornamental design for a hand saw frame, as shown and described.

## DESCRIPTION

FIG. 1 is a top perspective view of a hand saw frame showing my new design;  
 FIG. 2 is a side elevational view thereof;  
 FIG. 3 is a left end elevational view thereof;  
 FIG. 4 is a right end elevational view thereof;  
 FIG. 5 is a top plan view thereof;  
 FIG. 6 is a bottom plan view thereof;  
 FIG. 7 is a top perspective view of a hand saw frame showing an alternate embodiment of my new design;  
 FIG. 8 is a side elevational view thereof;  
 FIG. 9 is a left end elevational view thereof;  
 FIG. 10 is a right end elevational view thereof;  
 FIG. 11 is a top plan view thereof;  
 FIG. 12 is a bottom plan view thereof.  
 The broken line showing of the saw blade is for illustrative purposes only and forms no part of the claimed design.



## [54] COMBINATION CROSS AND RIP CUT HANDSAW

[75] Inventor: William G. Fodor, Blair, Va.

[73] Assignee: Sandvik, Inc., Greensboro, N.C.

[21] Appl. No.: 131,462

[22] Filed: Mar. 18, 1980

[51] Int. Cl. B27B 21/00

[52] U.S. Cl. 145/31 R

[53] Field of Search 145/31 R, 31-AC, 31 AD

## [56] References Cited

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Primary Examiner—Nicholas P. Goddard

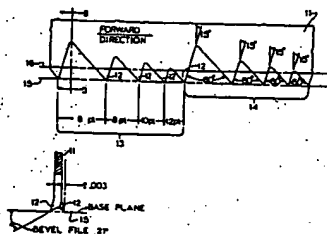
Assistant Examiner—J. T. Zatzara

Attorney, Agent, or Firm—B. B. Olive

## [57] ABSTRACT

A hand saw is provided having uniform repetitive groups of teeth with the tips thereof disposed in a straight line and with the depth and pitch diminishing in the forward direction. Each group of teeth in the illustrated embodiment is composed of four teeth of different lengths of 4, 8, 10 and 12 points. Although each tooth per group is of different length, the set of each tooth is equal with only a portion of each tooth being bent. Other critical angular relations are maintained.

6 Claims, 4 Drawing Figures



## [54] PLUNGE DRYWALL SAW

[75] Inventor: Robert F. Bachta, McHenry, IL (US)

[73] Assignee: Vaughan &amp; Bushnell Manufacturing Company, McHenry, IL (US)

[\*\*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

[21] Appl. No.: 09/375,468

[22] Filed: Aug. 14, 1999

[51] Int. Cl. B24B 3/06

[52] U.S. Cl. 30/335; 30/144; 30/514

[53] Field of Search 30/335, 337, 340, 30/317, 514, 144

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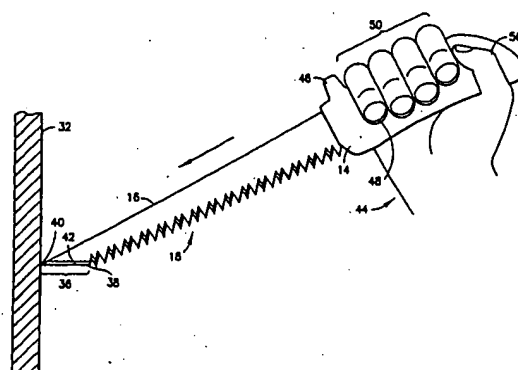
Primary Examiner—Douglas D. Watts

[74] Attorney, Agent, or Firm—Lackebach Siegel

## [57] ABSTRACT

A hand saw for penetrating and cutting drywall, comprising a handle, an elongated blade having generally opposed blade top and bottom edges, the blade top edge being flat and said blade bottom edge having saw teeth for cutting drywall, the blade having an inner end and an opposed free end area, the inner end being attached to the handle and the free end area having a tapered sharpened cutting edge extending from the blade bottom edge at the saw teeth to the blade top edge. The cutting edge is formed by a pair of inwardly tapered flat surfaces of the blade between the blade top and bottom edges at the free end area that converge at the sharpened cutting edge. A pointed tip is defined by the blade flat top side and the tapered cutting surface and the pair flat surfaces and by the blade flat top side. A hand strap is connected to the top side of the handle. The blade bottom edge is slightly tapered upwardly relative to the blade top edge between the handle and the free end area at the sharpened cutting edge.

18 Claims, 7 Drawing Sheets



# United States Patent (19)

Schnaeter et al.

(11) Patent Number: 4,913,418  
(43) Date of Patent: Apr. 3, 1990

## [34] SWIM AND EXERCISE PADDLE IMPROVEMENT

(75) Inventors: Henry J. Schnaeter, Phoenix, Ariz.; Ronald L. Johnson, Scottsdale, Ariz.

(73) Assignee: Spandolow, Inc., Phoenix, Ariz.

(21) Appl. No.: 774,347

(22) Filed: Nov. 23, 1988

(51) Int. Cl. A63B 31/00; A63B 31/02

(52) U.S. Cl. 372/73; 372/114; 434/254

(54) Field of Search: 372/11, 130, 92, 1 B; 434/254; 434/254 R; 434/254; 434/254 R; 434/254; 434/254 R

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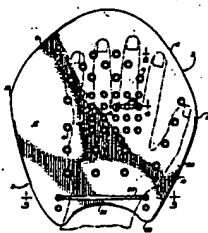
Primary Examiner—Stephen R. Crow  
Attorney, Agent, or Firm—Charles E. Cato

### [57] ABSTRACT

A swimmer's flexible plastic hand paddle has a surface area larger than a human hand, and a plurality of perforations (approximating the user's hand size) which are positioned to an off-set location on the paddle toward the thumb side of the user's hand. The edge of the paddle closely approaches the outer edge of the user's hand on the thumb side when the hand is in position on the paddle, whereas on the little finger side of the paddle there is a substantially larger (compared to the thumb side of the paddle) area (preferably superimposed) that makes a water lock. The corners of the paddle are rounded and means for attaching the user's hand to the paddle and positioned in a desired position over the perforations are provided. The thickness in a plastic material having a modulus of elasticity of about 130,000 p.s.i. is from 2 to 4 mm, preferably 3 mm.

15 Claims, 1 Drawing Sheet

Not Round, Not Rigid.  
No cut out grip.



Not stable at 120 mph.  
Not stable in white water.  
Silly holes reduce efficiency.

# United States Patent (19)

Johnson

(11) Patent Number: 5,511,998  
(43) Date of Patent: Apr. 30, 1996

## [54] SWIMMER TRAINING PADDLE

(75) Inventor: Ronald L. Johnson, 2538 N. 65th St., Scottsdale, Ariz. 85251

(21) Appl. No.: 502,630

(22) Filed: Jul. 14, 1995

(51) Int. Cl. A63B 31/00

(52) U.S. Cl. 441/56; 441/58

(54) Field of Search: 441/55, 56, 57, 441/58, 59, 60, 61, 62, 63, 64; D21/236, 237, 238; 434/254

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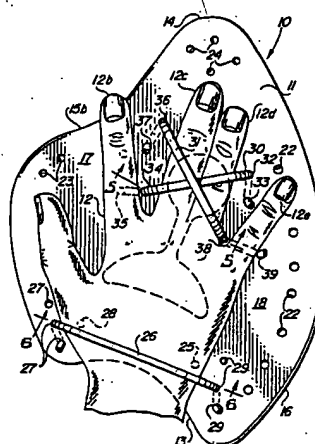
Primary Examiner—Stephen Avila

Attorney, Agent, or Firm—Warren P. B. Lindley

## [57] ABSTRACT

A swimmer's hand paddle in the form of a rigid planar member has a mitten-shaped surface area, larger than the human hand and wider in the palm area than in the area of the middle finger, and has an irregularly-shaped aperture of a width approximating the width of the hand positioned at a location on the paddle so as to be covered by the most sensitive area of the palm when the hand is properly positioned on the paddle. From one end of a proximal curved wrist edge to a point beyond the end of the thumb, the thumb side edge closely approaches the outer edge of the thumb and then curves inwardly and merges with a sharply curved distal end, whereas the little finger side edge extends with flared curvature from the distal end to the other end of the curved wrist edge. The area of the little finger side of the paddle is larger than the thumb side area, and has a curved row of perforations which closely approaches the little finger side edge for reducing the resistance to water of the little finger side during the routine of a swimming stroke. The user's hand is attached to and positioned on the paddle by sections of rubber tubing pulled through sets of perforations, one set positioned near the wrist edge and another set positioned at the approximate location of the base of the user's fingers.

14 Claims, 1 Drawing Sheet



Useless over 30 mph.  
No ergonomically correct cut out grip.



# (12) United States Design Patent

Chiang

(10) Patent No.: US D439,299 S  
(45) Date of Patent: Mar. 20, 2001

## [54] SWIMMING OAR

(75) Inventor: Herman Chiang, 11-2F, No. 634-9 Ching-Ping Rd., Chung-Ho City Taipei Hsien (TW)

(\*) Term: 14 Years

(21) Appl. No.: 29/124,904

(22) Filed: Jan. 6, 2000

(51) LOC (7) Cl. D21/807; D21/803

(52) U.S. Cl. D21/801, 804, 804

(54) Field of Search: D21/807, 803; 441/55-58, 60-64

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D. 397,187 8/1996 Reider D21/807  
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Primary Examiner—Kay H. Chin

Assistant Examiner—C. Styles  
(74) Attorney, Agent, or Firm—Pro-TECHTOR Int'l Services

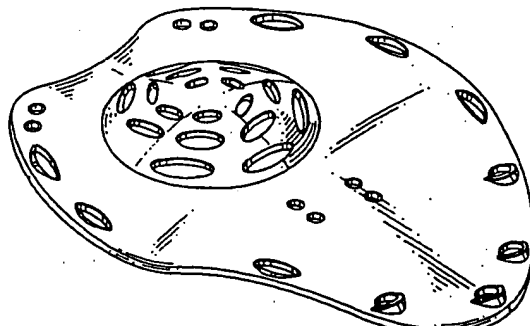
### [57] CLAIM

The ornamental design for a swimming oar, as shown and described.

### DESCRIPTION

FIG. 1 is a top, left, front, perspective view of a swimming oar showing my new design;  
FIG. 2 is a front elevational view thereof;  
FIG. 3 is a rear elevational view thereof;  
FIG. 4 is a left elevational view thereof;  
FIG. 5 is a right elevational view thereof;  
FIG. 6 is a top plan view thereof;  
FIG. 7 is a bottom plan view thereof; and  
FIG. 8 is a top, right, front, perspective view of reference of a swimming oar.

1 Claim, 6 Drawing Sheets



My dog loves these things!

# United States Patent (19)

Livcoak

(11) Patent Number: 5,842,896  
(45) Date of Patent: Dec. 1, 1998

## [54] HAND OPERATED PADDLE

(75) Inventor: Talmadge W. Livcoak, 501 Brentwood Dr., Madison, Ala. 37358

(21) Appl. No.: 359,542

(22) Filed: Dec. 20, 1994

### Related U.S. Application Data

(63) Continuation-in-part of Ser. No. 12,304, Aug. 30, 1993, Pat. No. 5,337,575.

(51) Int. Cl. A63B 31/00

(52) U.S. Cl. 441/56; 440/101

(54) Field of Search: 440/101; 441/53, 441/54, 58; 416/70 R; D12/215; D21/239

### [56] References Cited

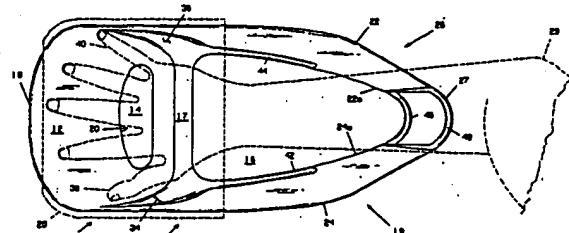
U.S. PATENT DOCUMENTS  
214,453 10/1879 Pinks 441/58  
2,105,429 2/1938 Main 441/56

Primary Examiner—Sherman Baxinger  
Attorney, Agent, or Firm—Mark Chodfeller

### [57] ABSTRACT

A paddle for use with a hand and forearm of a user is provided. The paddle has a paddle blade of a length shorter than its width, and generally encompasses an area approximating the span of a user. A support which provides support for the wrist extends from the paddle blade to a point near a user's elbow, with an opening in the support through which a user inserts a hand. A cover surrounds the hand and secures the paddle blade to the user's hand. As such, the user may rest an opened hand against the blade while using the paddle.

15 Claims, 3 Drawing Sheets



I'm no longer taking these inside

# United States Patent

Rozenblad

[11] 4,351,525

[45] Sep. 28, 1982

## [54] MULTIPLE USE EXERCISING DEVICES

[76] Inventor: William L. Rozenblad, 401 W. 56th St., New York, N.Y. 10019

[21] Appl. No.: 236,830

[22] Filed: Feb. 23, 1981

[51] Int. Cl. A63B 21/00

[52] U.S. Cl. 272/93

[53] Field of Search 272/93, 126, 109; 248/343; 15/103.5, 104.94, 253; 7/167

## [56] References Cited

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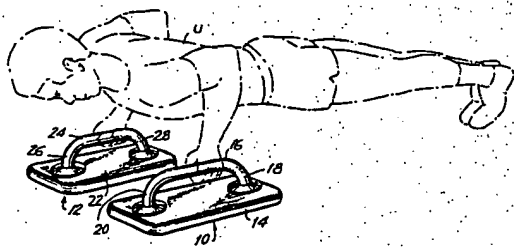
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3,115,331 12/1963 Acs et al. 272/128  
3,180,604 6/1965 Hammer 248/343 X  
3,572,701 3/1971 Agostini 272/128

Primary Examiner—Richard C. Pinkham  
Assistant Examiner—William R. Browne

## [57] ABSTRACT

An exercise device having one or two wood plaques with relatively flat, inverted U-shaped members extending vertically upright thereon. The U-shaped members are tubular and include horizontal portions with ends thereon extending downwardly into the plaques which serve as bases. Internal members in the ends include projections extending through the bases and engaged by locking members constructed into the bases. The locking members are covered by non-slip mats. Collars encircle the aforementioned ends to aid in holding the U-shaped members upright.

3 Claims, 5 Drawing Figures



# United States Patent

Olson

[11] Patent Number: 4,585,228

[45] Date of Patent: Apr. 29, 1986

## [54] WEIGHT ASSEMBLY

[75] Inventor: Scott B. Olson, Bloomington, Minn.

[73] Assignee: North America Sports Training Corporation, Minneapolis, Minn.

[21] Appl. No.: 644,901

[22] Filed: Aug. 31, 1984

[51] Int. Cl. A63B 21/12

[52] U.S. Cl. 272/119; 272/67

[53] Field of Search 272/119, 67, 68, 143, 272/116, 122, 96; 128/77; 273/189 A, 54 B

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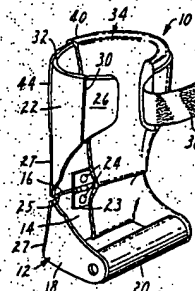
502716 1/1979 United Kingdom 272/119

Primary Examiner—Richard J. Apley  
Assistant Examiner—Robert W. Bahr  
Attorney, Agent, or Firm—William L. Huebner

## [57] ABSTRACT

A weight assembly adapted to be worn around a hand, wrist and forearm comprising a heavy metal stirrup like plate having a central portion adapted to generally cover and extend transversely across the back of the hand, and end portions projecting generally at right angles from opposite ends of its central portion a distance adapted to extend past the palm of the hand; and a tubular grip extending between the end portions adapted to be encircled by the fingers and thumb of the hand. A heavy metal forearm plate extends for a predetermined distance from the wrist longitudinally along the forearm and is attached to the first plate by a hinge having a single pivot axis along the wrist. A flexible cover envelops the hand and forearm plates and the hinge and includes a closure for releasably fastening the forearm plate to the forearm.

8 Claims, 4 Drawing Figures



# United States Patent

Cleto

[11] Patent Number: 5,530,967

[45] Date of Patent: Jul. 2, 1996

## [54] HOCKEY TRAINING GLOVES WITH ATTACHABLE AND REMOVABLE WEIGHTS

[76] Inventor: Robert Cleto, 190 Oak Ave., Island Heights, N.J. 08732

[21] Appl. No.: 365,444

[22] Filed: Sep. 13, 1994

[51] Int. Cl. A61D 3/10; A61D 13/10

[52] U.S. Cl. 2/16; 2/160

[53] Field of Search 2/16, 159, 160, 2/161.1, 162, 20; 273/57.2; 482/44, 105, 93

## [56] References Cited

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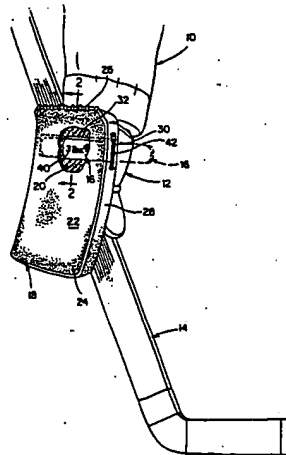
2051912 3/1993 Canada 482/105

Primary Examiner—Michael A. Ness  
Attorney, Agent, or Firm—Jacobson, Price, Holman & Stern

## [57] ABSTRACT

A hockey players gloves with attachable and removable weights in which the weights are insertable and removable from a pocket associated with the gloves. In certain embodiments, a portion of a blocking pad is positioned between the inserted weight and the surface of the pad adapted to engage or block a hockey puck that may be traveling at a relatively high rate of speed. In other embodiments, the weight is insertable and removable from a pocket formed in the cut area of each glove. The gloves may be used both as a warm up aid for use just prior to a game or as a training aid during various practice periods. The pocket receiving the weight is provided with a closure and the weight is preferably metal and provided with a coating of resilient material, such as rubber or the like.

3 Claims, 2 Drawing Sheets



# United States Patent

Fuentes

[11] Patent Number: 5,358,463

[45] Date of Patent: Oct. 25, 1994

## [54] EXERCISE DEVICE

[76] Inventor: Jesus Fuentes, 12 South Rd., Central Islip, N.Y. 11722

[21] Appl. No.: 952,595

[22] Filed: Sep. 28, 1992

[51] Int. Cl. A63B 26/00

[52] U.S. Cl. 482/141; 482/44; 482/147

[53] Field of Search 482/44-46, 482/49, 141, 146, 147

## [56] References Cited

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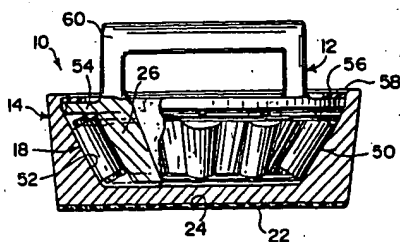
Primary Examiner—Richard J. Apley

Assistant Examiner—Jeanne M. Mofo

## [57] ABSTRACT

An improved exercise device is provided which consists of a hand engaging member, a base for supporting the hand engaging member on an underlying surface and a mechanism for rotating the hand engaging member about a vertical axis relative to the base, so that a user can develop a forearm/arm and upper body, while doing push-ups, so as to better execute karate punches and other sport motions of a like nature.

7 Claims, 3 Drawing Sheets



(54) MARTIAL ARTS TRAINING PAD AND BLOCKING SHIELD  
(76) Inventor: Timothy J. Queppet, 117 Railroad Ave., Unit A1, West Grove, Pa. 19380

4,667,954 5/1987 McCobb 272/76  
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Advertisements for blocking/protective equipment from Blackbelt magazine, Jan. 1979 and Sep. 1969.

Primary Examiner—Jessica I. Harrison  
Assistant Examiner—Michael O'Neill  
Attorney, Agent, or Firm—Brannaman, Georges & Kelleis

ABSTRACT

The invention relates to a combination training pad and blocking shield for use in martial arts training. The pad and blocking shield is portable and has frontal and side surfaces which allow an athlete training in martial arts to spontaneously practice frontal and lateral kicks and punches on the shield while such shield is held by a partner as well as mid and high level attack techniques, without concern for the safety of the partner.

9 Claims, 2 Drawing Sheets

(21) Appl. No.: 329,415

(22) Filed: Oct. 27, 1994

(51) Int. Cl.<sup>6</sup> A63B 69/26

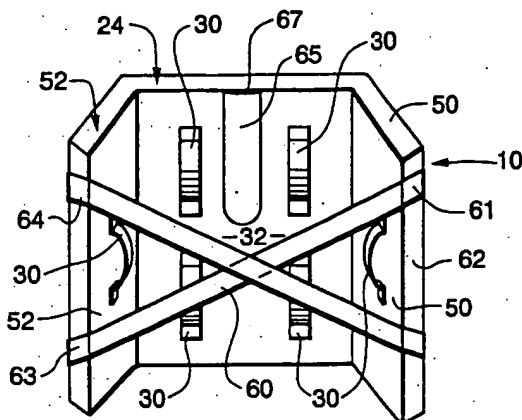
(52) U.S. Cl. 482/83; 434/247; 482/86

(57) Field of Search 434/247, 251; 482/83, 87, 88, 89; 273/55 A, 55 R, 57.3

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3,864,309 5/1975 De Sante  
4,478,408 10/1984 Bruckner  
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4,557,477 12/1983 Chinnery et al.



(54) FULL CONTACT MARTIAL ARTS SPARRING INSTRUMENT

(76) Inventor: Dana G. Abbott, 4905 E. Beverly Ln., Phoenix, Ariz. 85032

5,324,227 6/1994 Yeh-Ching  
5,630,998 5/1997 Parnon

Primary Examiner—William M. Pierce  
Attorney, Agent, or Firm—Frank L. McGee

ABSTRACT

A sparring instrument is disclosed which allows for self, pair free, full contact training. The sparring instrument comprises a handle and a striking portion having a beating armature mounted thereto. The beating armature comprises a tip rod telescopically received within a plurality of telescopically mounted cylinders. The beating armature is covered by a sheath extending beyond the tip rod. The sheath is covered by a soft, flexible material to its end. The sheath is made of a soft, resilient material whereby the sheath extends from the end of the soft, flexible material when the instrument is bent.

18 Claims, 2 Drawing Sheets

(21) Appl. No.: 09/274,543

(22) Filed: Mar. 23, 1999

(51) Int. Cl.<sup>7</sup> F41A 33/00; A63H 33/00

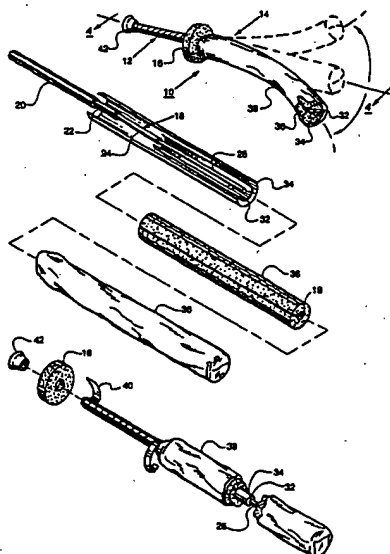
(52) U.S. Cl. 463/47.2; 463/47.7; 482/12

(57) Field of Search 463/47.2, 47.6, 463/47.7; 482/12, 109

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4,557,057 9/1990 Mancini  
5,285,928 3/1994 Tansie



(54) MARTIAL ARTS TRAINING DEVICE

(76) Inventor: Richard J. Gonzalez, HC 30, Box 833, 4250 Coyote Creek, Prescott, Ariz. 86301

5,275,507 12/1993 Swick 482/128  
5,813,925 3/1997 Mammone 482/83

Primary Examiner—Philip S. Hyder  
Attorney, Agent, or Firm—Richard R. Mybeck

(\*\*) Term: 14 Years

(21) Appl. No.: 29/101,235

(22) Filed: Mar. 1, 1999

(51) LOC (7) Cl. 21-02

(52) U.S. Cl. D21/798

(57) Field of Search D21/642, 787; D21/798; 482/83, 84, 85, 86, 87, 88, 89, 90, 473,444

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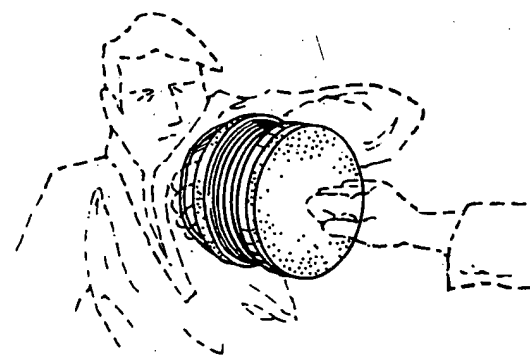
D. 282,808 1/1902 Eyo  
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4,775,148 10/1988 McLaughlin

The ornamental design for a martial arts training device, as shown and described.

DESCRIPTION

FIG. 1 is an isometric showing of a martial arts training device showing my new design; FIG. 2 is a rear elevation thereof; FIG. 3 is a top view thereof; FIG. 4 is a side elevation thereof, both sides being generally the same except that one is the mirror image of the other; FIG. 5 is a bottom view thereof; and, FIG. 6 is a front view thereof. The broken line portions of the FIG. 1 drawing are for illustrative purposes only and form no part of the claimed design.

1 Claim, 1 Drawing Sheet



(54) MARTIAL ARTS TRAINING DEVICE

(75) Inventor: Terry Lee Norblom, St. Louis Park, MN (US)

(57) Field of Search 482/83, 84, 84-87; 2716, 161 R, 2, 69.5; 602/14, 20, 18, 21, 40

(73) Assignee: Center Ring Martial Arts, Inc., Chanhassen, MN (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: 09/416,204

(22) Filed: Oct. 8, 1999

Related U.S. Application Data

(63) Continuation of application No. 09/034,524, filed on Mar. 3, 1998, now Pat. No. 5,904,063.

(51) Int. Cl.<sup>7</sup> A63B 21/02; A41D 13/08

(52) U.S. Cl. 482/83; 482/88; 482/124

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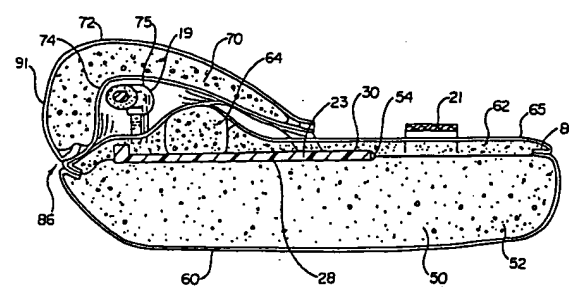
\* cited by examiner

Primary Examiner—Jerome Donnelly  
(74) Attorney, Agent, or Firm—Abernethy & Gork' P.C.

ABSTRACT

A martial arts training device is provided by the present invention. The martial arts training device includes an integrally constructed target pad and striking glove. The target pad is provided for protecting a wearer's forearm when an opponent strikes the pad. The striking glove is provided for protecting the wearer's hand when the wearer strikes another combatant or another target pad.

10 Claims, 2 Drawing Sheets



# United States Patent

(11) Patent Number: 5,678,873  
(45) Date of Patent: Oct. 21, 1997

(54) SNOWMOBILE'S AVALANCHE SHOVEL  
(76) Inventor: Lyle Robinson, 5354 S. 5200 W., Kearns, Utah 84118

Primary Examiner—Dean Kramer  
Attorney, Agent, or Firm—Patent & Trademark Services, Inc.; Joseph H. McGlynn; Thomas Zach

(21) Appl. No.: 786,468  
(22) Filed: Sep. 3, 1994  
(51) Int. Cl.: B60H 5/02  
(52) U.S. Cl.: 294/51; 294/57; 224/408  
(58) Field of Search: 294/57, 59; 224/403, 405, 408

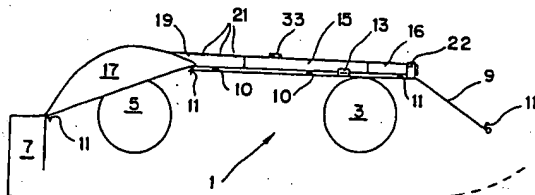
## ABSTRACT

A two piece shovel mounted on a vehicle such as snowmobile. A mounting cover extends over part of the vehicle's transmission and support to support the shovel head and is attached upper handle section and the lower separated handle section. Cover propp may engage holes in the handle sections along with several fasteners to provide this support. The shovel's head also overlaps and protects part of the vehicle's transmission. A series of holes in the upper handle section serve as receptory for a spring biased pin located on the lower handle section. By selectively engaging these holes with the pin, the total assembled handle length may be adjusted. Additional features include a lower handle compartment for emergency items and inscribed emergency procedures on the shovel head's back.

5 Claims, 1 Drawing Sheet

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5,044,853 9/1991 White 294/57  
5,063,623 11/1991 Campbell 294/594



# United States Patent

(11) Patent Number: 6,113,168  
(45) Date of Patent: Sep. 5, 2000

(54) COMPACT SNOW DIGGING IMPLEMENT  
(75) Inventor: Chris St. Jeor, Salt Lake City, Utah  
(73) Assignee: Innovations de Jeor, LLC, Salt Lake City, Utah

4,749,021 6/1988 Rylander 294/1.1  
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5,951,079 9/1999 Whiskey 294/53

Primary Examiner—Dean J. Kramer  
Attorney, Agent, or Firm—Thorpe, North & Western, LLP

(21) Appl. No.: 09/283,648  
(22) Filed: Aug. 24, 1999

## Related U.S. Application Data

(63) Continuation-in-part of application No. 09/160,649, Sep. 25, 1998, abandoned.  
(51) Int. Cl.: E01H 5/02  
(52) U.S. Cl.: 294/54.5; 37/285  
(58) Field of Search: 294/1.1, 1.3, 54.5, 294/53; 248/99; 37/365, 278, 284, 285; 141/10, 106, 109, 114, 314

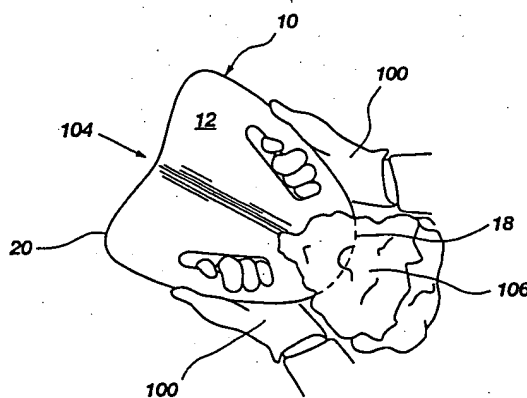
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4,607,872 8/1986 Horner

## ABSTRACT

A lightweight, compact implement for digging snow, comprising a substantially flat sheet of flexible, resilient material having a front face, a back face, a top edge, a bottom edge, a right edge, and a left edge, and handles situated near the right edge and the left edge thereof, whereby a user grasping the sheet by the handles may selectively deform the sheet into a shovel head shape and use it to cut and transport volumes of snow using the top edge or bottom edge. The handles may comprise oblong hand holes formed near the right and left edges of the sheet, or may comprise handles or straps affixed near the edges. The top edge is short and rounded so as to facilitate digging of hard or packed snow, while the bottom edge is longer and less rounded to allow digging of comparatively larger volumes of light or soft snow.

20 Claims, 3 Drawing Sheets



# United States Patent

(10) Patent No.: US 6,446,368 B1  
(45) Date of Patent: Sep. 10, 2002

(54) INNOVATIVE INCLINED PLANE EARTH ENGAGING TOOL

(75) Inventor: Cleo T. Watts, Dallas, TX (US)

(73) Assignee: Cleo Watts

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/417,943

(22) Filed: Oct. 13, 1999

(51) Int. Cl.: E02F 9/28  
(52) U.S. Cl.: 37/450; 37/451  
(58) Field of Search: 37/431, 452, 453, 454, 460; 172/753, 749, 772, 773

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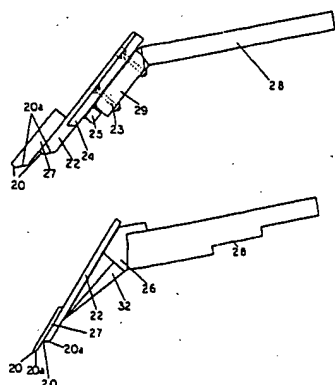
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Primary Examiner—Victor Batoo

## ABSTRACT

When added, the inclined plane (22) becomes the earth engaging tool. It is a robust, one piece, durable metal slope. Its leading edge is optionally pointed, narrowed, and thickened for use in consolidated and abrasive earth. Its leading edge fractures and cleaves as it up lifts excavated earth above and beyond its attachment to the implement (28). Working more than one inclined plane (22) in unison and arranged to bridge cleave, results in little to no abrasion to the implement (28), superior excavation performance, and excellent staying.

6 Claims, 8 Drawing Sheets



# United States Patent

(10) Patent No.: US 6,464,272 B1  
(45) Date of Patent: Oct. 15, 2002

(54) ONE HANDED SHOVEL FOR HANDICAPPED

(75) Inventor: Raymond Thomas Michaud, 21 Blanchard Rd., Springville, ME (US) 04083

(73) Assignee: Raymond Thomas Michaud, Springville, ME (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/981,047

(22) Filed: Oct. 18, 2001

(51) Int. Cl.: B25G 1/06; A01B 1/72  
(52) U.S. Cl.: 294/58; 294/25; 164/30  
(58) Field of Search: 294/25, 37-59; 164/22, 426, 430

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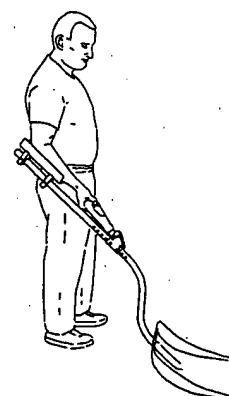
\* cited by examiner

Primary Examiner—Dean J. Kramer

## ABSTRACT

This design is to be used by handicapped persons for the removal of snow. The invention is made to be used with one arm, and is adjustable to fit a short or tall person with only one arm or leg, left or right. It consists of a grip handle which is secured to two plates by bolts which are attached in turn to the main shaft by bolts, and is made adjustable by holes drilled into the main shaft. It also has a cradle at the upper end of the main shaft in which the forearm rests to give it stability and leverage to lift the loaded shovel for throwing snow. This cradle is attached to the main shaft by clamps which are also adjustable by releasing the bolts and moving it up and down on the shaft, which is also used to allow for use of different sized persons in unison with the adjustment of the grip handle.

1 Claim, 3 Drawing Sheets



[54] Eviscerating and Skinning Knife  
[76] Inventor: Carl J. Addis, 115 Valley Dr., Casper, Wyo. 82601

[22] Filed: June 19, 1972  
[21] Appl. No.: 264,260

Related U.S. Application Data  
[63] Continuation-in-part of Ser. No. 159,981, July 6, 1971, abandoned.

[52] U.S. Cl. 30/287, 30/155  
[51] Int. Cl. B26D 29/02  
[58] Field of Search 30/286, 287, 294, 295, 30/299, 317, 155; 7/14.1

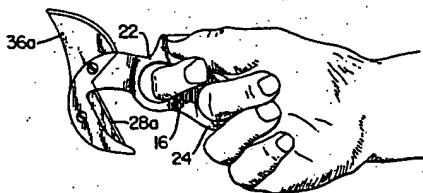
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2,904,021 9/1959 Cronquist 30/293  
3,241,234 3/1966 Capps 30/287  
D128,623 8/1941 Dorcas 30/217 X

Primary Examiner—Al Lawrence Smith  
Assistant Examiner—J. C. Peters  
Attorney, Agent, or Firm—Sheridan, Ross & Fields

# [57] ABSTRACT

A knife for use in eviscerating animals and of particular utility to hunters of game animals which are usually eviscerated at the scene of the kill. It is characterized by a hook-shaped member having a cutting edge at the inner portion of the bight thereof and having roller entrail depressors at the free end which roll along the inner or viscera side of the hide. It is of the draw-out type, pulled by a ring or rings attached to a shank of the member which, in an optional form, may be a pivotal connection which permits folding of the parts into compact relationship. In an optional form of the invention the rollers may be replaced with a ball-shaped depressor which is of particular utility in skinning or eviscerating the hide, rather than eviscerating entrails. In another optional form a second blade is provided for cutting between the skin and carcass.

3 Claims, 15 Drawing Figures



[54] BLUNT NOSE KNIFE  
[76] Inventor: Charles Allen, 632 E. 49th St., Austin, Tex. 78751

[\*\*] Term: 14 Years  
[21] Appl. No.: 8,763  
[22] Filed: May 23, 1993  
[52] U.S. Cl. D7/649  
[58] Field of Search D7/652, 664; 30/147-149, 346, 346.55, 346.56

[56] References Cited  
U.S. PATENT DOCUMENTS  
D. 178,433 8/1936 Jorge D7/649  
D. 267,622 1/1981 Russell D7/649

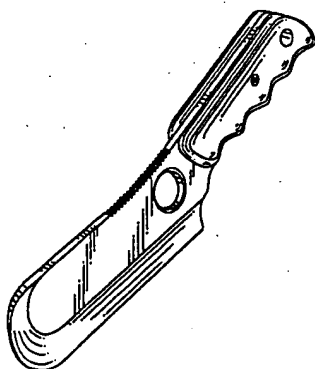
Primary Examiner—Alan P. Douglas  
Assistant Examiner—Carole D. Veynar  
Attorney, Agent, or Firm—Gumbrell, Wilson & Hamilton

# [57] CLAIM

The ornamental design for a blunt nose knife, as shown.

## DESCRIPTION

FIG. 1 is a right perspective view of the blunt nose knife of the present invention;  
FIG. 2 is a left perspective view of the blunt nose knife of the present invention;  
FIG. 3 is a top view of the blunt nose knife of the present invention;  
FIG. 4 is an elevational right side view of the blunt nose knife of the present invention;  
FIG. 5 is a front view of the blunt nose knife of the present invention;  
FIG. 6 is a rear view of the blunt nose knife of the present invention;  
FIG. 7 is an elevational left side view of the blunt nose knife of the present invention; and,  
FIG. 8 is a bottom view of the blunt nose knife of the present invention.



# [54] FINGER HOLE KNIFE

[76] Inventors: Maurice D. Schrock, c/o George Spector, 3615 Woolworth Bldg., 233 Broadway, George Spector, 3615 Woolworth Bldg., 233 Broadway, both of New York, N.Y. 10007

[21] Appl. No.: 633,850

[22] Filed: Nov. 20, 1975

[51] Int. Cl. B26D 29/00  
[52] U.S. Cl. 30/286, 30/153; 30/296; 30/340  
[58] Field of Search 30/153, 291, 295, 340, 30/289, 284, 284

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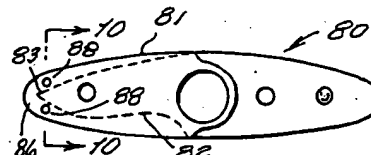
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3,839,788 10/1974 Addis 30/287

Primary Examiner—Al Lawrence Smith  
Assistant Examiner—J. T. Zatzberg

# [57] ABSTRACT

An improved design of knife in which there is a knife blade and a handle for being held in a user's hand, the handle having a hole extending therethrough so that a finger of the user can be inserted therein so to provide a more firm grip and prevent slipping of the knife in the hand; the knife design being readily adaptable for any knife such as either a pocket knife, boot knife, hunting knife or the like.

2 Claims, 10 Drawing Figures



# [54] KNIFE HOLSTER FOR A HAND

[76] Inventor: Donatello R. De Luccia, 1842 Colden Ave., Bronx, NY (US) 10462

[\*] Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(a) by 0 days.

[21] Appl. No.: 09/643,128

[22] Filed: Sep. 13, 2000

[51] Int. Cl. A45C 11/00  
[52] U.S. Cl. 224/218; 30/6; 224/232  
[58] Field of Search 224/218, 219, 224/222, 232; 30/160

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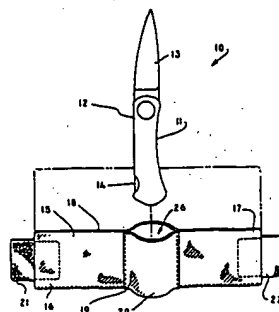
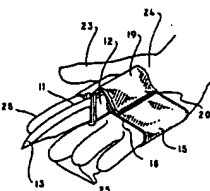
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Primary Examiner—Stephen P. Garbe

# [57] ABSTRACT

A knife holster for a hand for holding and supporting a blade between the user's fingers. The knife holster for a hand includes a knife having a handle and a blade pivotally and lockingly attached to the handle; and also includes a strap assembly being adapted to fasten about a user's hand and being adapted to support the knife upon the user's hand.

11 Claims, 2 Drawing Sheets



[54] DEPLOYABLE WING BACK PACK  
[75] Inventor: Kirted W. Mays, Miami, Fla.  
[73] Assignee: Lawrence Peka Associates, Inc.,  
New York, N.Y.; a part interest

Primary Examiner—Trygve M. Bliis  
Assistant Examiner—Barry L. Kelmacher  
Attorney, Agent, or Firm—Jack D. Slobod

[22] Filed: Apr. 30, 1975  
[21] Appl. No.: 573,134

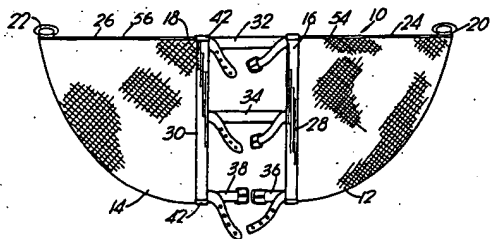
[57] ABSTRACT

A pair of sector-shaped wings stored in a pair of spaced apart elongated housings strapped vertically to the back of the user and adapted to be deployed from the housings utilizing rotatably mounted handles secured to the wings. Each housing has a longitudinal opening through which a wing is packed into a housing and deployed therefrom. Each wing comprises a pliable sheet of material which is secured to its respective housing along one side margin and secured to a rigid strip at another side margin. The strips are pivotally mounted and carry the handles which allow the wings to be manipulated by the user for accomplishing sky diving maneuvers.

[52] U.S. Cl. 244/64; 244/138 R;  
244/143  
[51] Int. Cl. B64C 31/04  
[58] Field of Search 244/143, 147, 64, 16,  
244/138 R, 142, 151 R

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823,844 1/1938 France 244/143

8 Claims, 6 Drawing Figures



[54] JUMPING GARMENT FOR A  
PARACHUTIST  
[75] Inventor: Marcel Pravaz, Cligny, France  
[73] Assignee: Etudes et Fabrications  
Aeronautiques, Paris, France

1,781,485 12/1930 Slav  
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533,942 5/1955 Italy

[22] Filed: Dec. 11, 1974  
[21] Appl. No.: 531,668

Primary Examiner—Alfred R. Guest

[50] Foreign Application Priority Data  
Dec. 19, 1973 France 73-45483

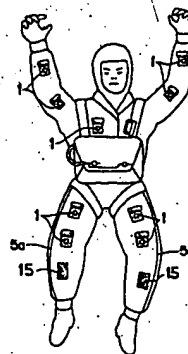
[52] U.S. Cl. 2/79  
[51] Int. Cl. A41D 13/02  
[58] Field of Search 2/DIG. 1, 69, 79, 80,  
2/81, 82, 2.1, 227; 244/143, 146, 142 R

[56] References Cited  
UNITED STATES PATENTS  
1,003,249 10/1911 DeMair 32/1 R X  
1,232,187 1/1918 Shaw 2/DIG. 1

[57] ABSTRACT

Jumping garment for a parachutist in which means are incorporated for increasing the drag during the free fall. The drag-increasing means comprise openings formed in the wall of the garment in at least one of the sides of the body. The openings are adapted to allow direct entry of air into the space defined by the garment around the body of the parachutist so as to fully inflate the garment.

15 Claims, 6 Drawing Figures



[54] THROWING GOOD FOR USE IN SKY  
DIVING

[76] Inventor: Atsushi Yamanaka, 4-31-13,  
Midori-cho, Takarazawa-shi,  
Saitama-Ken, Japan

Primary Examiner—Steven Wong  
Attorney, Agent, or Firm—Olson, Spivak, McClelland,  
Maier & Neumann, P.C.

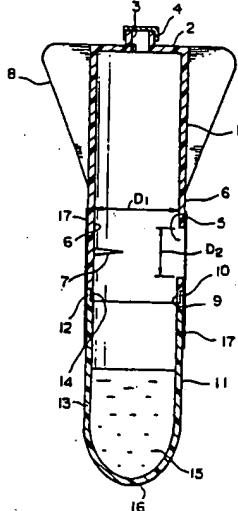
[57] ABSTRACT

A throwing good for use in sky diving, including a thin-gage, synthetic resin-made back body, a roughly circular opening window, a needle, a front body, and ballast water. The back body has a bottom and a cylindrical shape. The bottom has a small hole which can be opened and closed at will by means of a plug. The opening window is provided on the wall close to the front opening of the back body. The needle is directed toward the opening window protruded from the inner wall confronting the opening window. The front body has the same diameter as that of the back body of which back opening has a tip shaped into a hemisphere. The back opening of the front body is joined to the front opening of the back body and the joining portion is integrated by covering it with a rubber band of broad width capable of covering even the opening window. The ballast water fills the front body.

[21] Appl. No.: 09/260,012  
[22] Filed: Mar. 2, 1999  
[51] Int. Cl. A63B 69/00  
[52] U.S. Cl. 473/569; 473/594; 473/581  
[58] Field of Search 473/569, 578, 587; 473/593, 594,  
473/569, 578, 587; 473/560, 561, 565

[56] References Cited  
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5,514,023 5/1996 Warner 473/594  
5,538,456 7/1996 Liu et al. 473/594  
5,554,942 1/1996 McLane 473/581

1 Claim, 5 Drawing Sheets



[54] SKY DIVING TRAINING DEVICE

[76] Inventor: Jeffrey S. Mason, 13065 Henscher Rd.,  
DeSoto, MO (US) 63020

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5,795,277 A 9/1998 Benavente  
5,825,340 A 4/1999 Keller

[21] Appl. No.: 09/606,233  
[22] Filed: Jun. 28, 2000  
[51] Int. Cl. A63B 69/18  
[52] U.S. Cl. 434/253; 434/247; 434/258;  
472/59; 482/51; 482/147  
[58] Field of Search 434/253, 254; 472/59, 135;  
463/34; 273/440, 454; 482/146, 147, 51

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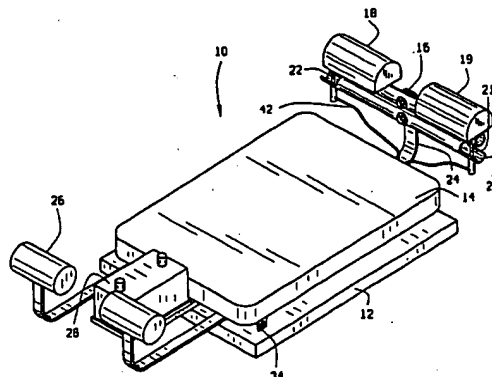
Primary Examiner—Jacob E. Adom, Jr.  
Assistant Examiner—Ben D. Miller  
(74) Attorney, Agent, or Firm—Polster, Lieder, Woodruff &  
Lucchesi

[57] ABSTRACT

A sky diving training device for training a student to assume the correct position for free fall. The device has a platform mounted on a pivot. The student lies face down on the platform with his shoulders on a steering bar. When the student diver allows one shoulder to drop, the device begins rotating in a predetermined direction. When the student corrects his shoulder position, the device stops rotating. However, if the student over corrects the shoulders, the device begins rotating in the opposite direction. The rotation simulates what happens in a free fall if the diver allows one shoulder to drop even slightly.

9 Claims, 4 Drawing Sheets

[56] References Cited  
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# United States Patent

111 3,581,740

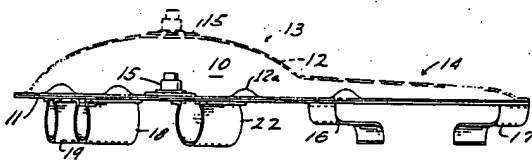
[72] Inventor Robert D. Sherbourne  
Findlay, Ohio  
[21] Appl. No. 834,330  
[22] Filed Sept. 2, 1969  
[45] Patented June 1, 1971  
[73] Assignee "R.L. Kiss & Co., Inc.  
Findlay, Ohio

[36] References Cited  
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2,830,721 4/1959 Corcoran 124/240UX  
FOREIGN PATENTS  
735,700 6/1966 Canada 124/87  
Primary Examiner—L. W. Trapp  
Attorney—Owen & Owen

## [54] INFLATABLE DEVICE FOR ARTHRITIC THERAPY

13 Claims, 5 Drawing Figs.  
[52] U.S. Cl. 128/77, 128/87A  
[51] Int. Cl. A61F 5/10  
[50] Field of Search 128/26, 87, 132, 133, 77; 84/467, 468; 272/67

ABSTRACT: An inflatable splint for extending the fingers and wrist of the hand of the wearer. The splint has an inflatable chamber extending over the hand and wrist area of the wearer, with one surface which assumes a planar configuration when the splint is inflated. The one surface has finger loops adapted to receive the fingers of the wearer and positioned such that, upon inflation, the fingers will be moved to a normally extended, spread-apart position. Wrist straps on the wrist area are provided to encircle the wearer's wrist so that, upon inflation, the wrist joint of the wearer will be moved to a straight position along with the extended fingers.



# United States Patent

111 3,942,194

Winter

[45] Mar. 9, 1976

## [54] PROSTHETIC DEVICE FOR HANDICAPPED PERSONS

[76] Inventor: Sybil Betty Anna Winter, 10124 W. Capitol Drive, Milwaukee, Wis. 53222

[22] Filed: Aug. 30, 1974  
[21] Appl. No. 501,950

[52] U.S. Cl. 3/1; 3/12.8; 401/8  
[51] Int. Cl. A61F 1/00; A61F 1/06  
[50] Field of Search 3/12, 12.8, 1; 401/6, 8

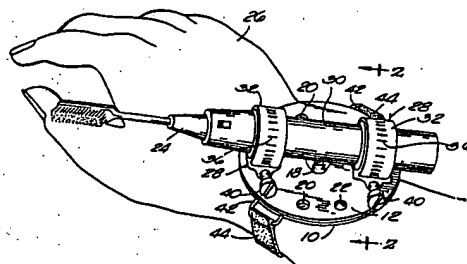
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2,889,180 6/1959 Nelson 3/12.8 X

Primary Examiner—Ronald L. Frinks  
Attorney, Agent, or Firm—Wheeler, Morsell, House & Fuller

## [57] ABSTRACT

Two stiff discs are rotatably attached together in face-to-face contact, one of the discs having a ring of openings therein, and the other disc having a nipple positioned to engage and latch in the openings. An implement holder is attached to one of the discs and a strap is attached to the other disc for strapping the two discs and implement holder to a person's hand. By rotating the disc carrying the implement holder with respect to the other disc, and clamping it in the desired position, the implement holder can be oriented in the proper rotary position for use of a predetermined implement by the person. The implement can be a knife, fork, comb, tooth brush, or any other suitable implement. The discs can be strapped to the palm of the person's hand, to the back of the hand, or to the wrist.

7 Claims, 5 Drawing Figures



# United States Patent

111 Patent Number: 4,907,574

Hollerbach

[45] Date of Patent: Mar. 13, 1990

## [54] FROM EXERCISE DEVICE FOR OPPOSING CONTRACTURE

[76] Inventor: Thomas R. Hollerbach, 2716 Stevens Ave., South, Minneapolis, Minn. 55408

[21] Appl. No. 229,333  
[22] Filed: Aug. 5, 1988

[51] Int. Cl. A61H 7/00  
[52] U.S. Cl. 128/64; 128/44;

[50] Field of Search 128/64, 65, DIG. 20, 128/24 R, DIG. 10, 160, 24, 157, 381, 165, 44

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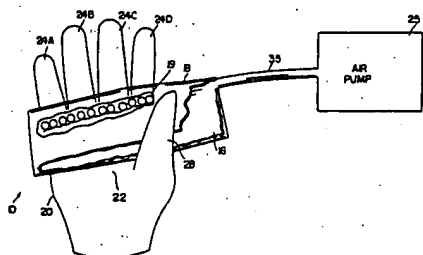
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735700 6/1966 Canada 128/DIG. 20

Primary Examiner—Edgar S. Burr  
Assistant Examiner—Hoang Q. Phan

## [57] ABSTRACT

A passive range of motion (PROM) device which manipulates hand muscles of patients suffering from contracture. The PROM device includes a glove for receiving the hand of a patient where the glove has an elastic sleeve secured to a palm side of the glove adjacent the points on the glove where fingers join the hand. The elastic sleeve is inflated to stretch and separate the fingers, and is deflated to allow the fingers to contract.

8 Claims, 5 Drawing Sheets



# United States Patent

111 Patent Number: 5,464,444

Farquharson et al.

[45] Date of Patent: Nov. 7, 1995

## [54] ATTACHMENT FOR ARTIFICIAL ARM PROSTHETIC DEVICE

[76] Inventor: Ronald E. Farquharson, Rte. 3, Box 3866 CR 628, Brazoria, Tex. 77422;  
Dannay P. Still, Rte. 5, Box 5, Angleton, Tex. 77515

[21] Appl. No. 216,624  
[22] Filed: Mar. 23, 1994

[51] Int. Cl. A61F 2/54; B25J 1/00  
[52] U.S. Cl. 623/65; 623/61; 623/62;  
901/28; 901/29;  
623/61; 62, 65;  
901/28, 29; 74/89.14

Field of Search 623/61; 62, 65;  
901/28, 29; 74/89.14

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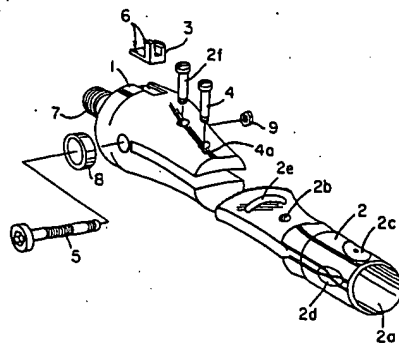
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Primary Examiner—David H. Willis  
Assistant Examiner—Bruce E. Snow

## [57] ABSTRACT

A terminal device is described which is attachable to the end of a prosthesis on an arm and there serves as an attachment die for a variety of tools or implements designed to mate with the terminal device. The terminal device comprises a first main part in operable and pivotal combination with a second main part, the combined main parts providing on one end a device for attaching to the end of an arm prosthesis, and on the other a device for attaching a variety of implements, the said device for implement attachment providing articulation capabilities that allow positioning of the implements in a variety of positions relative to the position of the arm prosthesis. Among the implements which can be attached are for example: cutting tools (such as saws, files, knives, scrapers, and swifs); various wrenches (such as open end wrenches, closed end wrenches, ratchet wrenches, adjustable wrenches, Allen wrenches, and pipe wrenches); and a variety of other implements such as spoons, scoops, spatulas, planes, brushes, fishing rods, and stirring devices.

12 Claims, 11 Drawing Sheets



# United States Patent [19]

Olsson

[11] 4,324,018

[45] Apr. 13, 1982

[54] PAINT EQUIPMENT CLEANING TOOL

[76] Inventor: Sven O. Olsson, 7951 Chicago Ave. South, Minneapolis, Minn. 55420

[21] Appl. No. 141,063

[22] Filed: Apr. 17, 1980

[51] Int. Cl. B44D 3/00

[52] U.S. Cl. 15/236 R; 15/104.04; 15/105; 15/245

[58] Field of Search 15/237 R, 236 R, 105, 15/111, 104.04, 245, 401

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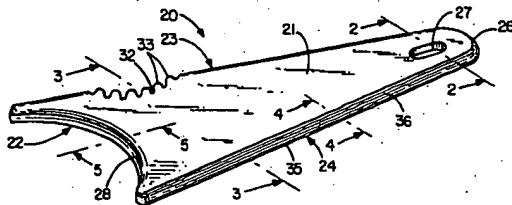
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Primary Examiner—Chris K. Moore  
Attorney, Agent, or Firm—Burd, Bartz & Outenkauf

[57] ABSTRACT

A paint applicator cleaning tool for cleaning painting equipment, such as a paint roller, paint pads, and paint pans. The tool comprises a flat base having a first side with a first arcuate notch having an uninterrupted edge and curved to substantially conform to the outer periphery of a portion of a standard paint roller. A second side of the base has a second arcuate notch having a plurality of teeth operable to fluff the nap of the paint roller. The base has a third side which includes an elongate linear edge for cleaning paint pads and pans and the like.

17 Claims, 13 Drawing Figures



# United States Patent [19]

Weiss

[11] Patent Number: Des. 386,372

[45] Date of Patent: Nov. 18, 1997

[54] TOOL

[76] Inventor: Sherman L. Weiss, 11360 Sherman Way, San Valley, Calif. 91332

[\*\*] Term: 14 Years

[21] Appl. No.: 53,782

[22] Filed: Jun. 13, 1996

[51] LOC (4) Cl. 08-05

[52] U.S. Cl. D8/14; D28/25; D32/42; D32/49

[58] Field of Search D8/14, 19, 43, D8/105; D7/682; D32/25, 42, 46, 49; 7/105, 113; 15/105, 236.01, 236.03, 236.05, 236.07, 236.08, 236.09, 245.1; D4/136; D28/25

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Primary Examiner—Prabhakar G. Deshmukh  
Assistant Examiner—Richelle Shelton  
Attorney, Agent, or Firm—Marshall A. Lerner; Marvita B. Kleinberg; Michael J. Rom

[57] CLAIM

The ornamental design for a tool, as shown.

DESCRIPTION

FIG. 1 is an isometric view of the tool showing any new design.

FIG. 2 is a front view thereof;

FIG. 3 is a right-side view thereof;

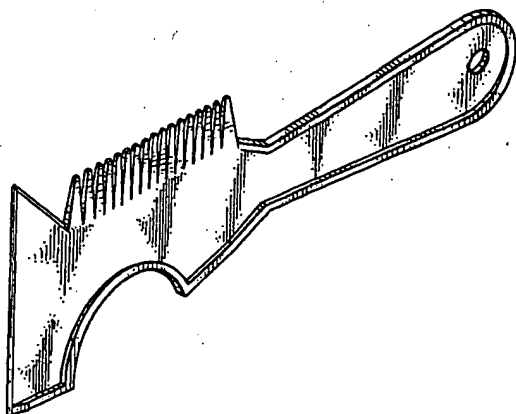
FIG. 4 is a rear view thereof;

FIG. 5 is a top view thereof;

FIG. 6 is a bottom view thereof; and

FIG. 7 is a left-side view thereof.

1 Claim, 1 Drawing Sheet



# United States Patent [19]

Casab

[11] Patent Number: Des. 312,379

[45] Date of Patent: Nov. 27, 1990

[54] ERGONOMIC PUTTY KNIFE

[76] Inventor: Salvador S. M. Casab, Xochitlaco #718, Mexico D.F., Mexico, 03630

[\*\*] Term: 14 Years

[21] Appl. No. 922,134

[22] Filed: Oct. 21, 1986

[51] U.S. Cl. D8/98; D8/107

[52] Field of Search D8/98-103, D8/107; D22/118; D7/150, 151; 30/314, 315, 317, 162, 325, 33, 337

[56] References Cited

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Primary Examiner—Bruce W. Dunklin  
Assistant Examiner—Clare E. Hefflin  
Attorney, Agent, or Firm—Silverman, Cass & Singer, Ltd.

[57] CLAIM

The ornamental design for ergonomic putty knife, substantially as shown and described.

DESCRIPTION

FIG. 1 is a rear, left side perspective view of the ergonomic putty knife of the invention.

FIG. 2 is a front, right side perspective view thereof;

FIG. 3 is a rear elevational view thereof;

FIG. 4 is a front elevational view thereof;

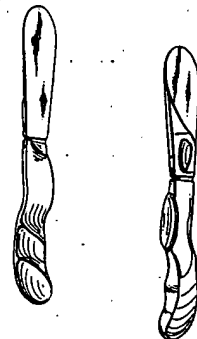
FIG. 5 is a right side elevational view thereof;

FIG. 6 is a left side elevational view thereof;

FIG. 7 is a top plan view thereof;

FIG. 8 is a bottom plan view thereof; and

FIG. 9 is a top perspective view thereof.



# United States Patent [19]

Panaccione et al.

[11] Patent Number: 5,956,799

[45] Date of Patent: Sep. 28, 1999

[54] PUTTY KNIFE AND SCRAPER HANDLE

[76] Inventors: Mark Thomas Panaccione, 12932 SW Bradley Ln., Tigard, Ore. 97224;  
Donald Paul Cummings, 19 Old Village Rd., Sudbury, Mass. 01566

[21] Appl. No.: 08/926,758

[22] Filed: Sep. 10, 1997

[51] Int. Cl. A47L 13/022

[52] U.S. Cl. 15/236.01; 15/43.1; 16/111 R; 81/177.1

[58] Field of Search 15/43.1, 235.4, 15/236.01; 16/110 R, 111 R; 30/169, 340; 81/77.1, 492, 900

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Primary Examiner—Terrence R. Tili  
Attorney, Agent, or Firm—Ronald R. Kipoonas

[57] ABSTRACT

An ergonomic putty knife and scraper handle manufactured from at least two different hardness injection molded polymers having a plurality of barrier longitudinal ribs embedded in a softer overlay but exposed on both top and bottom surfaces in strategic locations. The longitudinal ribs providing non-binding contact with fabric surfaces to ease the insertion and removal of the handle into and from a user's pocket for temporary storage of the tool when not in use. When employing the tool for its intended purpose, however, the user enjoys the comfort, efficiency and safety of an ergonomic handle offering a "soft touch" to thumb and fingers in those locations requiring superior grippability.

20 Claims, 14 Drawing Sheets

